

AMENDMENTS TO THE CLAIMS:

Please amend the claims as follows:

1. (Currently amended) A method of decoding partially encrypted digital content, comprising:

receiving partially encrypted content comprising unencrypted content, first content encrypted under a first encryption system and second content encrypted under a second encryption system, wherein the first and second content represent identical content when unencrypted;

decrypting the second encrypted content; and

decoding the clear first content and the decrypted second content to decode the partially encrypted content.

2. (Original) The method according to claim 1, wherein the receiving, decrypting and decoding are carried out in a television device.

3. (Original) The method according to claim 2, wherein the television device comprises a television set-top box.

4. (Currently Amended) The method according to claim 1, wherein the receiving, decrypting and decoding functions are implemented ~~carried out~~ in an integrated circuit.

5. (Currently Amended) The method according to claim 1, wherein the receiving, decrypting and decoding functions are implemented ~~carried out~~ in one of an application specific integrated circuit, a programmable logic device, and a field programmable gate array.

6. (Currently Amended) A method of decoding a partially encrypted digital television signal, comprising:

receiving a message identifying a primary packet identifier (PID) for a program and a secondary PID for the program;

receiving multiple selectively encrypted content in which the primary PID identifies unencrypted packets as well as selected packets of content that are encrypted under a first encryption method, and wherein the content further comprises a duplicate of the selected packets of content encrypted under a second encryption method that are identified by the secondary PID;

decrypting packets having the secondary PID; and
combining the decrypted packets with unencrypted packets having the primary PID to form a data stream representing the program.

7. (Original) The method according to claim 6, further comprising decoding the decrypted packets and the packets having the primary PID.

8. (Original) The method according to claim 6, further comprising mapping the decrypted packets to the primary PID.

9. (Original) The method according to claim 8, wherein the mapping is carried out in an integrated circuit device.

10. (Previously Presented) The method according to claim 8, wherein the mapping is carried out in one of an application specific integrated circuit device, a programmable logic device, and a field programmable gate array.

11. (Currently Amended) The method according to claim 6, wherein packets having the primary PID comprise unencrypted packets and encrypted packets and further comprising:

~~receiving unencrypted packets having the primary PID;~~
~~receiving encrypted packets having the primary PID; and~~
discarding the encrypted packets having the primary PID.

12. (Currently Amended) The method according to claim 6, carried out in a television receiver device.

13. (Original) The method according to claim 6, carried out in a television set-top box.

14. (Previously Presented) A method of decrypting ~~partially~~ a partially multiple encrypted digital television program, comprising:

receiving multiple selectively encrypted content in which a primary packet identifier identifies unencrypted packets as well as selected packets of content that are encrypted under a first encryption method, and wherein the content further comprises a duplicate of the selected packets of content that are encrypted under a second encryption method and identified by a secondary packet identifier;

identifying ~~a television~~ the digital television program by unencrypted packets associated with the ~~with a~~ primary packet identifier and encrypted packets associated with the ~~and a~~ secondary packet identifier;

decrypting packets having the secondary packet identifier.

15. (Previously Presented) The method according to claim 14, further comprising decoding the decrypted packets having the secondary packet identifier along with decrypted packets having the primary packet identifier to decode the partially encrypted television program.

16. (Original) The method according to claim 14 further comprising discarding encrypted packets having the primary packet identifier.

17. (Currently Amended) The method according to claim 14, carried out in a television receiver device ~~wherein certain of the packets associated with the primary packet identifier are encrypted according to a first encryption method, and wherein the packets having a secondary packet identifier are encrypted according to a second encryption method.~~

18. (Original) The method according to claim 14, wherein the encrypted packets comprise transport stream packets carrying an MPEG packetized elementary stream (PES) header as a portion of a payload thereof.

19. (Original) The method according to claim 14, wherein the encrypted packets comprise audio packets.

20. (Original) The method according to claim 14, wherein the encrypted packets comprise time sliced samples of the television program.

21. (Previously Presented) The method according to claim 14, wherein the encrypted packets comprise packets containing information critical to decoding the television program.

22. (Previously Presented) The method according to claim 14, wherein the television program is compressed and wherein the encrypted packets comprise packets containing information used for decompression of the television program.

23. (Original) The method according to claim 14, wherein the encrypted packets comprise N packets out of every M packets where N is less than M.

24. (Original) The method according to claim 14, further comprising remapping packets having the secondary packet identifier to have the primary packet identifier.

25. (Original) An electronic storage medium storing instructions which, when executed on a programmed processor, carry out the method of decoding a television program according to claim 14.

26. (Currently Amended) ~~An~~ A carrier wave residing on an electronic transmission medium carrying a sequence of instructions for implementing a ~~carrying out a~~ method of ~~decoding~~ decrypting a television program ~~by the method~~ according to claim 14.

27. (Currently Amended) A digital television receiver device, comprising:

means for receiving a multiple partially encrypted digital television signal, the television signal being identified by packets associated with either a primary packet identifier or a secondary packet identifier;

wherein the multiple partially encrypted digital television signal comprises unencrypted packets identified by the first packet identifier, packets encrypted under a first encryption method, and packets encrypted under a second encryption method identified by the second packet identifier, wherein the packets encrypted under the first and second encryption methods represent identical content when unencrypted;

a decrypter that decrypts packets having the secondary packet identifier; and

a decoder that decodes the decrypted packets having the secondary packet identifier along with unencrypted packets having the primary packet identifier to decode the partially encrypted television signal.

28. (Original) The apparatus according to claim 27, further comprising means for discarding encrypted packets having the primary packet identifier.

29. (Currently Amended) The apparatus according to claim 27, further comprising discarding encrypted packets having the first packet identifier ~~wherein certain of the packets associated with the primary packet identifier are encrypted according to a first encryption method, and wherein the packets having a secondary packet identifier are encrypted according to a second encryption method.~~

30. (Original) The apparatus according to claim 27, wherein the encrypted packets comprise transport stream packets carrying an MPEG packetized elementary stream (PES) header as a portion of a payload thereof.

31. (Original) The apparatus according to claim 27, wherein the encrypted packets comprise audio packets.

32. (Original) The apparatus according to claim 27, wherein the encrypted packets comprise video packets.

33. (Original) The apparatus according to claim 27, wherein the encrypted packets comprise time sliced samples of the television program.

34. (Currently Amended) The apparatus according to claim 27, wherein the digital television receiver device comprises a digital television set-top box.

35. (Currently Amended) A digital content player, comprising:

means for receiving digital multiple partially encrypted audio visual content, the content being identified by packets associated with either a primary packet identifier or a secondary packet identifier;

wherein the digital multiple partially encrypted audio visual content comprises unencrypted packets identified by the first packet identifier, packets encrypted under a first encryption method, and packets encrypted under a second encryption method identified by the second packet identifier, wherein the packets encrypted under the first and second encryption methods represent identical content when unencrypted;

a decrypter that decrypts packets having the secondary packet identifier; and

a decoder that decodes the decrypted packets having the secondary packet identifier along with certain packets having the primary packet identifier to decode the digital multiple partially ~~partially dual~~ encrypted audio visual content.

36. (Original) The apparatus according to claim 35, further comprising means for discarding encrypted packets having the primary packet identifier.

37. (Original) The apparatus according to claim 35, wherein certain of the packets associated with the primary packet identifier are encrypted according to a first encryption method, and wherein the packets having a secondary packet identifier are encrypted according to a second encryption method.

38. (Original) The apparatus according to claim 35, wherein the encrypted packets comprise transport stream packets carrying an MPEG packetized elementary stream (PES) header as a portion of a payload thereof.

39. (Original) The apparatus according to claim 35, wherein the encrypted packets comprise audio packets.

40. (Original) The apparatus according to claim 35, wherein the encrypted packets comprise video packets.

41. (Original) The apparatus according to claim 35, wherein the encrypted packets comprise time sliced samples of the television program.

42. (Original) The apparatus according to claim 35, wherein content player comprises one of a television device, a PDA, a music player and a personal computer.

43. (Currently Amended) A digital television set-top box, comprising:

a receiver that receives:

a plurality of unencrypted elementary stream packets; and

a plurality of pairs of dual encrypted packets, wherein a first packet of each pair of encrypted packets is encrypted under a first encryption algorithm and a second packet of each pair of encrypted packets is encrypted under a second encryption algorithm and wherein a television signal is comprised of both the unencrypted and one of each pair of encrypted packets;

wherein the first and second packet of each pair of encrypted packets represent identical content when unencrypted;

a decrypter that decrypts the encrypted packets; and

a decoder that decodes the packets to produce the television signal.

44. (Previously Presented) The apparatus according to claim 43, wherein the pairs of dual encrypted packets comprise encrypted elementary stream packets.

45. (Previously Presented) The apparatus according to claim 43, wherein the unencrypted packets and pairs of dual encrypted packets comprise transport stream packets.

46. (Previously Presented) The apparatus according to claim 43, wherein the pairs of dual encrypted packets comprise system information packets.

47. (Previously Presented) The apparatus according to claim 43, wherein the first packet of each pair of encrypted packets and unencrypted packets are identified by a primary packet identifier, and the second packet of each pair of encrypted packets is identified by a secondary packet identifier.

48. (Previously Presented) The apparatus according to claim 47, wherein the unencrypted packets and the second packet of each pair of encrypted packets are identified by a primary packet identifier, and wherein the first packet of each pair of encrypted packets are identified by a secondary packet identifier.

49. (Currently Amended) A circuit, comprising:

an input that receives an input stream of packets, the input stream of packets comprising:

unencrypted packets having a first packet identifier,

encrypted packets having the first packet identifier,

encrypted packets having a second packet identifier,
wherein the encrypted packets having the first and second packet identifiers
represent identical content when unencrypted:

a packet identifier reader that reads the packet identifiers of the packets in the input stream of packets, and that discards the encrypted packets having the first packet identifier;

a packet identifier re-mapping circuit that re-maps the second packet identifier to the first packet identifier to produce re-mapped packets; and

a multiplexer that multiplexes the re-mapped packets with the unencrypted packets having the first packet identifier to produce an output stream of packets.

50. (Original) The apparatus according to claim 49, wherein the encrypted packets having the first packet identifier are encrypted according to a first encryption technique; and wherein the encrypted packets having the second packet identifier are encrypted according to a second encryption technique.

51. (Original) The apparatus according to claim 49, further comprising an MPEG decoder receiving the output stream of packets.

52. (Original) The apparatus according to claim 49, wherein the circuit is embodied in an integrated circuit.

53. (Original) The apparatus according to claim 49, wherein the circuit is embodied in one of a field programmable gate array, a programmable logic device and an application specific integrated circuit.

54. (Original) The apparatus according to claim 49, further comprising a demultiplexer that demultiplexes the output stream of packets based upon the packet identifiers.

55. (Currently Amended) A circuit, comprising:

input means for receiving an input stream of packets, the input stream of packets comprising:

unencrypted packets having a first packet identifier,
encrypted packets having the first packet identifier,
encrypted packets having a second packet identifier,

wherein the encrypted packets having the first and second packet identifiers represent identical content when unencrypted;

packet identifier reading means for reading the packet identifiers of the packets in the input stream of packets, and for discarding the encrypted packets having the first packet identifier;

packet identifier re-mapping means for re-mapping the second packet identifier to the first packet identifier to produce re-mapped packets; and

multiplexer means for multiplexing the re-mapped packets with the unencrypted packets having the first packet identifier to produce an output stream of packets.

56. (Original) The apparatus according to claim 55, wherein the encrypted packets having the first packet identifier are encrypted according to a first encryption technique; and wherein the encrypted packets having the second packet identifier are encrypted according to a second encryption technique.

57. (Original) The apparatus according to claim 55, further comprising an MPEG decoder receiving the output stream of packets.

58. (Original) The apparatus according to claim 55, wherein the circuit is embodied in an integrated circuit.

59. (Previously Presented) The apparatus according to claim 55, wherein the circuit is embodied in one of a field programmable gate array, a programmable logic device and an application specific integrated circuit.

60. (Original) The apparatus according to claim 55, further comprising a demultiplexer that demultiplexes the output stream of packets based upon the packet identifiers.

61. (Currently Amended) A method of processing packets, comprising:
receiving an input stream of packets, the input stream of packets comprising:
unencrypted packets having a first packet identifier,
encrypted packets having the first packet identifier,
encrypted packets having a second packet identifier,
wherein the encrypted packets having the first and second packet identifiers represent identical content when unencrypted;
reading the packet identifiers of the packets in the input stream of packets;
discarding the encrypted packets having the first packet identifier;
re-mapping the second packet identifier to the first packet identifier to produce re-mapped packets; and
multiplexing the re-mapped packets with the unencrypted packets having the first packet identifier to produce an output stream of packets.

62. (Original) The method according to claim 61, wherein the encrypted packets having the first packet identifier are encrypted according to a first encryption technique; and wherein the encrypted packets having the second packet identifier are encrypted according to a second encryption technique.

63. (Original) The method according to claim 61, carried out in an integrated circuit.

64. (Original) The method according to claim 61, carried out in one of a field programmable gate array, a programmable logic device and an application specific integrated circuit.

65. (Original) The method according to claim 61, carried out in a main central processor of a television set-top box.

66. (Original) The method according to claim 61, carried out in a decoder circuit of a television set-top box.

67. (Original) The method according to claim 61, further comprising demultiplexing the output stream of packets based upon the packet identifiers.

68. (Currently Amended) A method of processing packets, comprising:
receiving an input stream of packets, the input stream of packets comprising:
unencrypted packets having a first packet identifier,
encrypted packets having the first packet identifier,
encrypted packets having a second packet identifier,
wherein the encrypted packets having the first and second packet identifiers represent identical content when unencrypted;
reading the packet identifiers of the packets in the input stream of packets;
discarding the encrypted packets having the first packet identifier; and
re-mapping packets that have not been discarded so that they have the same packet identifier.

69. (Original) The method according to claim 68, further comprising multiplexing the packets that have not been discarded with each other to produce an output stream of packets.

70. (Original) The method according to claim 68, wherein the encrypted packets having the first packet identifier are encrypted according to a first encryption technique; and wherein the encrypted packets having the second packet identifier are encrypted according to a second encryption technique.

71. (Original) The method according to claim 68, carried out in an integrated circuit.

72. (Original) The method according to claim 68, carried out in one of a field programmable gate array, a programmable logic device and an application specific integrated circuit.

73. (Original) The method according to claim 68, carried out in a main central processor of a television set-top box.

74. (Original) The method according to claim 68, carried out in a decoder circuit of a television set-top box.

75. (Original) The method according to claim 68, further comprising demultiplexing the output stream of packets based upon the packet identifiers.

76. (Currently Amended) A circuit, comprising:

an input that receives an input stream of packets, the input stream of packets comprising:

unencrypted packets having a first packet identifier,
encrypted packets having the first packet identifier,
encrypted packets having a second packet identifier,

wherein the encrypted packets having the first and second packet identifiers represent identical content when unencrypted;

a packet identifier reader that reads the packet identifiers of the packets in the input stream of packets, and that discards the encrypted packets having the first packet identifier; and

a packet identifier re-mapping circuit that re-maps at least one of the second packet identifier and the first packet identifier so that the packets that have not been discarded have the same packet identifier.

77. (Currently Amended) The circuit apparatus according to claim 76, further comprising a multiplexer that multiplexes the re-mapped packets with the unencrypted packets having the first packet identifier to produce an output stream of packets.

78. (Currently Amended) The circuit apparatus according to claim 76, wherein the encrypted packets having the first packet identifier are encrypted according to a first encryption technique; and wherein the encrypted packets having the second packet identifier are encrypted according to a second encryption technique.

79. (Currently Amended) The circuit apparatus according to claim 76, further comprising an MPEG decoder receiving the output stream of packets.

80. (Currently Amended) The circuit apparatus according to claim 76, wherein the circuit is embodied in an integrated circuit.

81. (Currently Amended) The circuit apparatus according to claim 76, wherein the circuit is embodied in one of a field programmable gate array, a programmable logic device and an application specific integrated circuit.

82. (Currently Amended) A digital television program stream, comprising:
unencrypted packets identified by a primary Packet Identifier (PID);
encrypted packets identified by the primary PID; and
encrypted packets identified by the secondary PID;
wherein the encrypted packets having the primary and secondary PID represent identical content when unencrypted;

wherein the television program can be comprised of either the unencrypted packets identified by the primary PID together with the encrypted packets identified by the primary PID, or the unencrypted packets identified by the primary PID together with the encrypted packets identified by the ~~secondary PID~~ secondary PID.

83. (Previously Presented) The digital television program stream according to claim 82, with the encrypted packets identified by the primary PID removed.

84. (Previously Presented) The digital television program stream according to claim 83, with the encrypted packets identified by the secondary PID decrypted.

85. (Previously Presented) The digital television program stream according to claim 82, with the encrypted packets identified by the secondary PID removed.

86. (Previously Presented) The digital television program stream according to claim 85, with the encrypted packets identified by the primary PID decrypted.